

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	156	(keiji near1 mabuchi).in.	US-PGPUB; USPAT	ADJ	ON	2010/04/30 21:41
L2	1705	386/4,121,124.ccls.	US-PGPUB; USPAT	ADJ	ON	2010/04/30 21:41
L3	566	348/220.1.ccls.	US-PGPUB; USPAT	ADJ	ON	2010/04/30 21:41
L4	2254	L2   L3	US-PGPUB; USPAT	ADJ	ON	2010/04/30 21:41
L5	4807	250/208.1.ccls.	US-PGPUB; USPAT	ADJ	ON	2010/04/30 21:42
L6	899	257/223,233.ccls.	US-PGPUB; USPAT	ADJ	ON	2010/04/30 21:42
L7	8352	348/220.1,241,294-324,372.ccls.	US-PGPUB; USPAT	ADJ	ON	2010/04/30 21:42
L8	12913	L5   L6   L7	US-PGPUB; USPAT	ADJ	ON	2010/04/30 21:42
L9	9831	348/207.99,220.1,241,294-324,372.ccls.	US-PGPUB; USPAT	ADJ	ON	2010/04/30 21:44
L10	4199	257/223,225,231,233,292,440,443.ccls.	US-PGPUB; USPAT	ADJ	ON	2010/04/30 21:52
L11	17242	5   9   10	US-PGPUB; USPAT	ADJ	ON	2010/04/30 21:52
L12	57	row with well with pixel same semiconductor	US-PGPUB; USPAT	ADJ	ON	2010/04/30 21:52

L13	1191	row with well with pixel and semiconductor	US-PGPUB; USPAT	ADJ	ON	2010/04/30 21:53
L14	252	11 and 13	US-PGPUB; USPAT	ADJ	ON	2010/04/30 21:53
L15	18	11 and 12	US-PGPUB; USPAT	ADJ	ON	2010/04/30 21:53
L21	24	1 and (substrate with voltage)	US-PGPUB; USPAT	ADJ	ON	2010/04/30 22:22
S1	93818	substrate with voltage	US-PGPUB; USPAT	ADJ	ON	2008/02/19 11:03
S3	3242	348/302-324.ccls.	US-PGPUB; USPAT	ADJ	ON	2008/02/19 11:05
S4	547	S1 and S3	US-PGPUB; USPAT	ADJ	ON	2008/02/19 11:05
S5	10683	S1 same different	US-PGPUB; USPAT	ADJ	ON	2008/02/19 11:22
S6	70	S5 and S3	US-PGPUB; USPAT	ADJ	ON	2008/02/19 11:22
S7	5597	S1 with different	US-PGPUB; USPAT	ADJ	ON	2008/02/19 11:23
S8	44	S7 and S3	US-PGPUB; USPAT	ADJ	ON	2008/02/19 11:23
S9	39004	(reduc\$3 or lower\$3 or first or second or chang\$3 or varying) with substrate with voltage	US-PGPUB; USPAT	ADJ	ON	2008/02/19 12:03
S11	3242	348/302-324.ccls.	US-PGPUB; USPAT	ADJ	ON	2008/02/19 12:04
S12	239	S9 and S11	US-PGPUB; USPAT	ADJ	ON	2008/02/19 12:04
S13	4508	348/294-324.ccls.	US-PGPUB; USPAT	ADJ	ON	2008/02/19 14:15
S14	62693	dynamic range or dynamic-range	US-PGPUB; USPAT	ADJ	ON	2008/02/19 14:17

S15	141	S14 with voltage with transfer	US-PGPUB; USPAT	ADJ	ON	2008/02/19 14:17
S16	25	S13 and S15	US-PGPUB; USPAT	ADJ	ON	2008/02/19 14:17
S17	1201	S13 and S14	US-PGPUB; USPAT	ADJ	ON	2008/02/19 14:19
S18	469	S17 and voltage with transfer	US-PGPUB; USPAT	ADJ	ON	2008/02/19 14:19
S19	332	S18 and reset	US-PGPUB; USPAT	ADJ	ON	2008/02/19 14:20
S20	244	S19 and substrate	US-PGPUB; USPAT	ADJ	ON	2008/02/19 14:20
S21	93818	substrate with voltage	US-PGPUB; USPAT	ADJ	ON	2008/02/19 14:21
S22	2370	S14 and S21	US-PGPUB; USPAT	ADJ	ON	2008/02/19 14:21
S23	36	S15 and S21	US-PGPUB; USPAT	ADJ	ON	2008/02/19 14:21
S24	233	S17 and S21	US-PGPUB; USPAT	ADJ	ON	2008/02/19 14:21
S25	34209	substrate near3 voltage	US-PGPUB; USPAT	ADJ	ON	2008/02/19 14:22
S26	109	S17 and S25	US-PGPUB; USPAT	ADJ	ON	2008/02/19 14:22
S27	80	S26 and voltage with transfer	US-PGPUB; USPAT	ADJ	ON	2008/02/19 14:23
S28	1	"20060239644"	US-PGPUB; USPAT	ADJ	ON	2008/02/20 11:22
S29	4508	348/294-324.ccls.	US-PGPUB; USPAT	ADJ	ON	2008/02/20 11:58
S30	62693	dynamic range or dynamic-range	US-PGPUB; USPAT	ADJ	ON	2008/02/20 11:58

S31	1201	S29 and S30	US-PGPUB; USPAT	ADJ	ON	2008/02/20 11:58
S32	34209	substrate near3 voltage	US-PGPUB; USPAT	ADJ	ON	2008/02/20 11:58
S33	109	S31 and S32	US-PGPUB; USPAT	ADJ	ON	2008/02/20 11:58
S34	80	S33 and voltage with transfer	US-PGPUB; USPAT	ADJ	ON	2008/02/20 11:58
S35	35	S34 and CMOS	US-PGPUB; USPAT	ADJ	ON	2008/02/20 11:58
S36	2	(5014132 5744968).pn.	US-PGPUB; USPAT	ADJ	ON	2008/02/20 12:27
S37	48	substrate with voltage with dynamic range	US-PGPUB; USPAT	ADJ	ON	2008/02/20 12:30
S38	1	"6661459".pn.	US-PGPUB; USPAT	ADJ	ON	2008/02/20 13:42
S39	1	"20040130641"	US-PGPUB; USPAT	ADJ	ON	2008/02/20 14:05
S40	80920	substrate with (zero or "0" or ground\$3)	US-PGPUB; USPAT	ADJ	ON	2008/02/24 14:15
S41	4514	348/294-324.ccls.	US-PGPUB; USPAT	ADJ	ON	2008/02/24 14:15
S42	268	S40 and S41	US-PGPUB; USPAT	ADJ	ON	2008/02/24 14:15
S43	93935	substrate with voltage	US-PGPUB; USPAT	ADJ	ON	2008/02/24 14:18
S44	170	S42 and S43	US-PGPUB; USPAT	ADJ	ON	2008/02/24 14:18
S45	62818	dynamic range or dynamic-range	US-PGPUB; USPAT	ADJ	ON	2008/02/24 14:18
S46	70	S44 and S45	US-PGPUB; USPAT	ADJ	ON	2008/02/24 14:18

S47	233	S41 and S43 and S45	US-PGPUB; USPAT	ADJ	ON	2008/02/24 14:29
S48	88	S47 and CMOS	US-PGPUB; USPAT	ADJ	ON	2008/02/24 14:30
S49	131905	substrate with (voltage or potential or bias)	US-PGPUB; USPAT	ADJ	ON	2008/02/24 14:41
S50	1886727	readout or read-out or read\$3 out or transfer\$4	US-PGPUB; USPAT	ADJ	ON	2008/02/24 14:46
S51	5252	S49 with S50	US-PGPUB; USPAT	ADJ	ON	2008/02/24 14:46
S52	404	S51 and S41	US-PGPUB; USPAT	ADJ	ON	2008/02/24 14:46
S53	88	S52 and CMOS	US-PGPUB; USPAT	ADJ	ON	2008/02/24 14:46
S54	68621	(p-type or p type) with substrate	US-PGPUB; USPAT	ADJ	ON	2008/02/24 15:07
S55	28442	S49 and S54	US-PGPUB; USPAT	ADJ	ON	2008/02/24 15:08
S56	532	S55 and S41	US-PGPUB; USPAT	ADJ	ON	2008/02/24 15:08
S57	1616	348/372,220.1,241.ccls.	US-PGPUB; USPAT	ADJ	ON	2008/02/25 18:07
S58	376	S57 and substrate	US-PGPUB; USPAT	ADJ	ON	2008/02/25 18:07
S59	145	S58 and (substrate with (voltage or potential))	US-PGPUB; USPAT	ADJ	ON	2008/02/25 18:08

S60	15	(US-20040239791-\$ or US-20060209202-\$ or US-20040252211-\$ or US-20030030737-\$).did. or (US-7102680-\$ or US-6982751-\$ or US-6947089-\$ or US-5828407-\$ or US-5631705-\$ or US-7129985-\$ or US-6515703-\$ or US-5786852-\$ or US-5729287-\$ or US-6661459-\$ or US-6825878-\$).did.	US-PGPUB; USPAT	ADJ	ON	2008/09/19 19:15
S61	7	S60 and cmos	US-PGPUB; USPAT	ADJ	ON	2008/09/19 19:15
S62	100280	substrate with voltage	US-PGPUB; USPAT	ADJ	ON	2008/09/20 23:29
S63	17457	S62 same well	US-PGPUB; USPAT	ADJ	ON	2008/09/20 23:29
S64	1968	S63 and pixel	US-PGPUB; USPAT	ADJ	ON	2008/09/20 23:29
S65	633	S64 and cmos	US-PGPUB; USPAT	ADJ	ON	2008/09/20 23:30
S66	19511	control\$4 with substrate with voltage	US-PGPUB; USPAT	ADJ	ON	2008/09/20 23:32
S67	151	S65 and S66	US-PGPUB; USPAT	ADJ	ON	2008/09/20 23:32
S68	20830	well near2 depth	US-PGPUB; USPAT	ADJ	ON	2008/09/20 23:32
S69	22	S67 and S68	US-PGPUB; USPAT	ADJ	ON	2008/09/20 23:32
S70	67103	dynamic range	US-PGPUB; USPAT	ADJ	ON	2008/09/20 23:41
S71	100280	substrate with voltage	US-PGPUB; USPAT	ADJ	ON	2008/09/20 23:41
S72	173	S70 same S71	US-PGPUB; USPAT	ADJ	ON	2008/09/20 23:41

S73	48	S72 and photodiode	US-PGPUB; USPAT	ADJ	ON	2008/09/20 23:42
S74	24	S73 and cmos	US-PGPUB; USPAT	ADJ	ON	2008/09/20 23:43
S75	2553	substrate with voltage with (transfer or readout or read out)	US-PGPUB; USPAT	ADJ	ON	2008/09/20 23:58
S76	413	S75 same well	US-PGPUB; USPAT	ADJ	ON	2008/09/20 23:58
S77	42	S76 and cmos and photodiode	US-PGPUB; USPAT	ADJ	ON	2008/09/20 23:59
S78	2	JP-2000022126-\$.did.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/09/21 00:04
S79	2	JP-2001257940-\$.did.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/09/21 00:05
S80	0	JP-H03195278-\$.did.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/09/21 00:07
S81	2	JP-03195278-\$.did.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/09/21 00:07
S82	2	JP-04032589-\$.did.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/09/21 00:08
S83	2	JP-58125974-\$.did.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/09/21 00:09

S84	176	well with negative with voltage with (transfer or readout or read out)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/09/21 00:13
S85	15	S84 and cmos and photodiode	US-PGPUB; USPAT	ADJ	ON	2008/09/21 00:14
S86	176	well with negative with voltage with (transfer or readout or read out)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/09/21 17:04
S87	15	S86 and cmos and photodiode	US-PGPUB; USPAT	ADJ	ON	2008/09/21 17:04
S88	280	low\$2 with voltage with substrate with (transfer or readout or read out)	US-PGPUB; USPAT	ADJ	ON	2008/09/23 18:33
S89	32931	cmos and pixel	US-PGPUB; USPAT	ADJ	ON	2008/09/23 18:33
S90	25	S88 and S89	US-PGPUB; USPAT	ADJ	ON	2008/09/23 18:33
S91	172	reduc\$3 with substrate with voltage with (transfer \$4 or read\$3 out or readout)	US-PGPUB; USPAT	ADJ	ON	2008/09/23 18:45
S92	15	S89 and S91	US-PGPUB; USPAT	ADJ	ON	2008/09/23 18:46
S93	307	reduc\$3 with readout with voltage	US-PGPUB; USPAT	ADJ	ON	2008/09/23 18:50
S94	113	S93 and cmos	US-PGPUB; USPAT	ADJ	ON	2008/09/23 18:50
S95	50	S93 same pixel	US-PGPUB; USPAT	ADJ	ON	2008/09/23 18:50
S96	34	S95 and cmos	US-PGPUB; USPAT	ADJ	ON	2008/09/23 18:50

S97	1964	(pixel or picel or pel) same (transfer or read\$3 or read out) same substrate same (voltage or potential)	US-PGPUB; USPAT	ADJ	ON	2008/09/29 12:37
S98	7251	(pixel or picel or pel) same (transfer or read\$3 or read out) same transistor	US-PGPUB; USPAT	ADJ	ON	2008/09/29 12:38
S99	6970	(transfer or read\$3 or read out) with substrate with (voltage or potential)	US-PGPUB; USPAT	ADJ	ON	2008/09/29 12:38
S100	481	S98 and S99	US-PGPUB; USPAT	ADJ	ON	2008/09/29 12:38
S101	2023	(lower\$3 or reduc\$4) with (read out or readout) with voltage	US-PGPUB; USPAT	ADJ	ON	2008/09/29 12:39
S102	37	S100 and S101	US-PGPUB; USPAT	ADJ	ON	2008/09/29 12:39
S103	2023	(lower\$3 or reduc\$4) with (read out or readout) with voltage	US-PGPUB; USPAT	ADJ	ON	2008/09/29 16:35
S104	422	S103 and pixel	US-PGPUB; USPAT	ADJ	ON	2008/09/29 16:35
S105	36526	substrate near3 voltage	US-PGPUB; USPAT	ADJ	ON	2008/09/29 16:36
S106	74	S104 and S105	US-PGPUB; USPAT	ADJ	ON	2008/09/29 16:36
S107	24	S106 and cmos	US-PGPUB; USPAT	ADJ	ON	2008/09/29 17:08
S108	52625	substrate near3 (voltage or potential)	US-PGPUB; USPAT	ADJ	ON	2008/09/29 17:20
S109	11722	S108 and cmos	US-PGPUB; USPAT	ADJ	ON	2008/09/29 17:20
S110	71984	(read out or readout or transfer) with voltage	US-PGPUB; USPAT	ADJ	ON	2008/09/29 17:21
S111	1357	S108 same S110	US-PGPUB; USPAT	ADJ	ON	2008/09/29 17:21

S112	428	S109 and S111	US-PGPUB; USPAT	ADJ	ON	2008/09/29 17:21
S113	54	S103 and S112	US-PGPUB; USPAT	ADJ	ON	2008/09/29 17:21
S114	112	S112 and pixel	US-PGPUB; USPAT	ADJ	ON	2008/09/29 17:23
S115	31689	(read out or readout or transfer) with transistor	US-PGPUB; USPAT	ADJ	ON	2008/09/29 17:23
S116	503	S108 same S115	US-PGPUB; USPAT	ADJ	ON	2008/09/29 17:23
S117	87	S116 and cmos and pixel	US-PGPUB; USPAT	ADJ	ON	2008/09/29 17:24
S118	7220	negative with voltage with well	US-PGPUB; USPAT	ADJ	ON	2008/09/29 19:52
S119	100	S118 same pixel	US-PGPUB; USPAT	ADJ	ON	2008/09/29 19:52
S120	45	S119 and (image sensor or camera)	US-PGPUB; USPAT	ADJ	ON	2008/09/29 19:53
S121	2	JP-10248035-\$.did.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/09/29 20:35
S122	2	"20040130641"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/09/29 20:42
S123	0	cmos and (substrate voltage near3 fixed) and image sensor	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/09/29 20:46

S124	21	cmos and (substrate voltage near3 fixed)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/09/29 20:46
S125	58	cmos and (substrate voltage with fixed)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/09/29 20:47
S126	0	cmos and (substrate voltage with fixed) and image sensor	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/09/29 20:47
S127	3	cmos and (substrate voltage with fixed) and photoelectric	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/09/29 20:47
S128	4	cmos and (substrate near2 voltage with fixed) and photoelectric	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/09/29 20:48
S129	34	cmos and (substrate near2 voltage with fix\$3) and (photoelectric or image near2 sensor or imager)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/09/29 20:50
S130	30	S129 not S128	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/09/29 20:50
S131	5	cmos and (substrate near2 bias with fix\$3) and (photoelectric or image near2 sensor or imager)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/09/29 20:52

S132	556	cmos and (substrate near2 voltage) and (photoelectric or image near2 sensor or imager)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/09/29 20:53
S133	7573	(substrate near2 voltage) with (chang\$3 or vari\$2 or vary\$3 or lower\$3 or reduc\$3 or increas\$3 or rais\$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/09/29 20:54
S134	119	S132 and S133	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/09/29 20:54
S135	305	IC tag same print\$3	US-PGPUB; USPAT	ADJ	ON	2008/09/30 20:02
S136	63	S135 and camera	US-PGPUB; USPAT	ADJ	ON	2008/09/30 20:02
S137	0	RF ID same IP address same camera	US-PGPUB; USPAT	ADJ	ON	2008/09/30 20:16
S138	8	RF ID same IP address and camera	US-PGPUB; USPAT	ADJ	ON	2008/09/30 20:16
S139	1659	bias with p well	US-PGPUB; USPAT	ADJ	ON	2008/10/01 20:09
S140	1241	negative with (bias or voltage) with p well	US-PGPUB; USPAT	ADJ	ON	2008/10/01 20:09
S141	45	S140 and pixel	US-PGPUB; USPAT	ADJ	ON	2008/10/01 20:10
S142	1901	well with row with pixel	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/10/01 20:51

S143	0	well with each row with pixel	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/10/01 20:52
S144	1102	S142 and substrate	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/10/01 20:52
S145	4	p well with row with pixel	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/10/01 20:55
S146	15	n well with row with pixel	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/10/01 20:57
S147	1974	n well with bias	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/10/01 21:01
S148	1210	n well with bias with voltage	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/10/01 21:02
S149	1967	n well with bias\$3 with voltage	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/10/01 21:02
S150	1579	p well with bias\$3 with voltage	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/10/01 21:02

S151	2779	S149   S150	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/10/01 21:02
S152	400	p well with bias\$3 with negative with voltage	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/10/01 21:02
S153	336	n well with bias\$3 with positive with voltage	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/10/01 21:02
S154	3609617	S152   "36"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/10/01 21:02
S155	616	S152   S153	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/10/01 21:03
S156	370	S155 and cmos	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/10/01 21:03
S157	22	S155 and cmos and image and pixel	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/10/01 21:03
S158	1	"5747840".pn.	US-PGPUB; USPAT	ADJ	ON	2008/10/02 16:38
S159	1790	348/372,220.1,241.ccls.	US-PGPUB; USPAT	ADJ	ON	2008/10/02 16:43
S160	3508	348/302-324.ccls.	US-PGPUB; USPAT	ADJ	ON	2008/10/02 16:43

S161	4926	348/294-324.ccls.	US-PGPUB; USPAT	ADJ	ON	2008/10/02 16:43
S162	6324	3 5	US-PGPUB; USPAT	ADJ	ON	2008/10/02 16:44
S163	803	257/223,233.ccls.	US-PGPUB; USPAT	ADJ	ON	2008/10/02 16:44
S164	4091	250/208.1.ccls.	US-PGPUB; USPAT	ADJ	ON	2008/10/02 16:44
S165	10266	6 7 8	US-PGPUB; USPAT	ADJ	ON	2008/10/02 16:44
S166	100761	substrate with voltage	US-PGPUB; USPAT	ADJ	ON	2008/10/02 16:45
S167	1191	S165 and S166	US-PGPUB; USPAT	ADJ	ON	2008/10/02 16:45
S168	2241	pixel with well with substrate	US-PGPUB; USPAT	ADJ	ON	2008/10/02 16:46
S169	113	S167 and S168	US-PGPUB; USPAT	ADJ	ON	2008/10/02 16:46
S170	3261	substrate with voltage with (read out or readout or transfer\$4)	US-PGPUB; USPAT	ADJ	ON	2008/10/02 16:46
S171	40	S169 and S170	US-PGPUB; USPAT	ADJ	ON	2008/10/02 16:46
S172	108	(keiji with mabuchi).in.	US-PGPUB; USPAT	ADJ	ON	2008/10/02 16:52
S173	108	(keiji near1 mabuchi).in.	US-PGPUB; USPAT	ADJ	ON	2008/10/02 16:52
S174	508245	substrate.clm.	US-PGPUB; USPAT	ADJ	ON	2008/10/02 16:53
S175	38	S173 and S174	US-PGPUB; USPAT	ADJ	ON	2008/10/02 16:53

S176	22	(US-20040239791-\$ or US-20040252211-\$ or US-20030030737-\$ or US-20020171752-\$ or US-20060072026-\$).did. or (US-7102680-\$ or US-6982751-\$ or US-6947089-\$ or US-5828407-\$ or US-5631705-\$ or US-7129985-\$ or US-6515703-\$ or US-5786852-\$ or US-5729287-\$ or US-6661459-\$ or US-6825878-\$ or US-6486460-\$ or US-5587596-\$ or US-6501109-\$ or US-5747840-\$).did. or (JP-2000022126-\$).did. or (JP-2000022126-\$).did.	US-PGPUB; USPAT; JPO; DERWENT	ADJ	ON	2008/10/03 19:29
S177	0	S176 and bayer	US-PGPUB; USPAT	ADJ	ON	2008/10/03 19:30
S178	8	S176 and color filter	US-PGPUB; USPAT	ADJ	ON	2008/10/03 19:30
S179	1	S176 and color filter and ccd and cmos	US-PGPUB; USPAT	ADJ	ON	2008/10/03 19:30
S180	22	(US-20040239791-\$ or US-20040252211-\$ or US-20030030737-\$ or US-20020171752-\$ or US-20060072026-\$).did. or (US-7102680-\$ or US-6982751-\$ or US-6947089-\$ or US-5828407-\$ or US-5631705-\$ or US-7129985-\$ or US-6515703-\$ or US-5786852-\$ or US-5729287-\$ or US-6661459-\$ or US-6825878-\$ or US-6486460-\$ or US-5587596-\$ or US-6501109-\$ or US-5747840-\$).did. or (JP-2000022126-\$).did. or (JP-2000022126-\$).did.	US-PGPUB; USPAT; JPO; DERWENT	ADJ	ON	2008/12/17 15:06
S181	3	S180 and charge pump	US-PGPUB; USPAT	ADJ	ON	2008/12/17 15:06
S182	3	(US-20040252211-\$).did. or (US-6825878-\$ or US-6501109-\$).did.	US-PGPUB; USPAT	ADJ	ON	2008/12/17 15:07
S183	105431	substrate with voltage	US-PGPUB; USPAT	ADJ	ON	2009/03/05 10:38
S184	38242	substrate near3 voltage	US-PGPUB; USPAT	ADJ	ON	2009/03/05 10:38

S185	5306	348/294-324.ccls.	US-PGPUB; USPAT	ADJ	ON	2009/03/05 10:38
S186	807	S184 with (transfer or readout or read out)	US-PGPUB; USPAT	ADJ	ON	2009/03/05 10:39
S187	84	S185 and S186	US-PGPUB; USPAT	ADJ	ON	2009/03/05 10:39
S188	6	("4717945"   "6760073"   "6933976"   "7015964"   "7050100"   "7102680").PN. OR ("7388611"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/03/05 10:52
S189	51591	well near3 voltage	US-PGPUB; USPAT	ADJ	ON	2009/03/05 11:49
S190	800	S189 with (transfer or readout or read out)	US-PGPUB; USPAT	ADJ	ON	2009/03/05 11:49
S191	66	S185 and S190	US-PGPUB; USPAT	ADJ	ON	2009/03/05 11:50
S192	2	JP-2000022126-\$.did.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/03/05 13:37
S193	2	JP-2001257940-\$.did.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/03/05 13:38
S194	2	JP-03195278-\$.did.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/03/05 13:39
S195	2	JP-58125974-\$.did.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/03/05 13:40

S196	33	(US-20040239791-\$ or US-20040252211-\$ or US-20030030737-\$ or US-20020171752-\$ or US-20060072026-\$ or US-20020105586-\$).did. or (US-7102680-\$ or US-6982751-\$ or US-6947089-\$ or US-5828407-\$ or US-5631705-\$ or US-7129985-\$ or US-6515703-\$ or US-5786852-\$ or US-5729287-\$ or US-6661459-\$ or US-6825878-\$ or US-6486460-\$ or US-5587596-\$ or US-6501109-\$ or US-5747840-\$ or US-7388611-\$ or US-7365785-\$ or US-7292274-\$ or US-7161625-\$ or US-6559889-\$ or US-5181101-\$ or US-4963983-\$).did. or (JP-2000022126-\$).did. or (JP-2000022126-\$ or JP-03195278-\$ or JP-2001257940-\$ or JP-58125974-\$).did.	US-PGPUB; USPAT; JPO; DERWENT	ADJ	ON	2009/03/05 18:25
S197	11	S196 and cmos	US-PGPUB; USPAT	ADJ	ON	2009/03/05 18:25
S198	837	cmos same (four transistor or "4T") with pixel	US-PGPUB; USPAT	ADJ	ON	2009/03/06 13:51
S199	1	"7420154".pn.	US-PGPUB; USPAT	ADJ	ON	2009/03/06 14:22
S200	603	cmos same (three transistor or "3T") with pixel	US-PGPUB; USPAT	ADJ	ON	2009/03/06 14:23
S201	315	S198 same S200	US-PGPUB; USPAT	ADJ	ON	2009/03/06 14:23
S202	5	S201 same advantage	US-PGPUB; USPAT	ADJ	ON	2009/03/06 14:23
S203	1659	(four transistor or "4T") with pixel	US-PGPUB; USPAT	ADJ	ON	2009/03/06 14:24
S204	1269	(three transistor or "3T") with pixel	US-PGPUB; USPAT	ADJ	ON	2009/03/06 14:25
S205	16	S203 same S204 same advantage	US-PGPUB; USPAT	ADJ	ON	2009/03/06 14:25

S206	11	("20030030737"   "5587596"   "5729287"   "5747840"   "6486460"   "6501109"   "6661459"   "6825878"   "6982751"   "7102680"   "7129985"). PN.	US-PGPUB; USPAT	ADJ	ON	2009/03/06 17:09
S207	4277	250/208.1.ccls.	US-PGPUB; USPAT	ADJ	ON	2009/03/06 17:19
S208	836	257/223,233.ccls.	US-PGPUB; USPAT	ADJ	ON	2009/03/06 17:20
S209	6838	348/220.1,241,294-324,372.ccls.	US-PGPUB; USPAT	ADJ	ON	2009/03/06 17:20
S210	10951	S207   S208   S209	US-PGPUB; USPAT	ADJ	ON	2009/03/06 17:20
S211	117	(keiji near1 mabuchi).in.	US-PGPUB; USPAT	ADJ	ON	2009/03/06 17:21
S212	38242	substrate near3 voltage	US-PGPUB; USPAT	ADJ	ON	2009/03/06 17:22
S213	807	S212 with (transfer or readout or read out)	US-PGPUB; USPAT	ADJ	ON	2009/03/06 17:22
S214	2	S211 and S213	US-PGPUB; USPAT	ADJ	ON	2009/03/06 17:22
S215	118	S210 and S213	US-PGPUB; USPAT	ADJ	ON	2009/03/06 17:22
S216	32	S215 and cmos	US-PGPUB; USPAT	ADJ	ON	2009/03/06 17:23

S217	34	(US-20040239791-\$ or US-20040252211-\$ or US-20030030737-\$ or US-20020171752-\$ or US-20060072026-\$ or US-20020105586-\$).did. or (US-7102680-\$ or US-6982751-\$ or US-6947089-\$ or US-5828407-\$ or US-5631705-\$ or US-7129985-\$ or US-6515703-\$ or US-5786852-\$ or US-5729287-\$ or US-6661459-\$ or US-6825878-\$ or US-6486460-\$ or US-5587596-\$ or US-6501109-\$ or US-5747840-\$ or US-7388611-\$ or US-7365785-\$ or US-7292274-\$ or US-7161625-\$ or US-6559889-\$ or US-5181101-\$ or US-4963983-\$ or US-7375752-\$).did. or (JP-2000022126-\$).did. or (JP-2000022126-\$ or JP-03195278-\$ or JP-2001257940-\$ or JP-58125974-\$).did.	US-PGPUB; USPAT; JPO; DERWENT	ADJ	ON	2009/05/08 17:43
S218	89003	(substrate or well) near3 voltage	US-PGPUB; USPAT	ADJ	ON	2009/10/22 15:33
S219	1334	(substrate or well) near3 voltage with transfer	US-PGPUB; USPAT	ADJ	ON	2009/10/22 15:33
S220	113	(substrate or well) near3 voltage with transfer same (pixel or picel or pixel)	US-PGPUB; USPAT	ADJ	ON	2009/10/22 15:33
S221	7646	image with coordinate with conver\$4	US-PGPUB; USPAT	ADJ	ON	2009/10/26 10:30
S222	51	S221 same virtual with plane	US-PGPUB; USPAT	ADJ	ON	2009/10/26 10:30
S223	888	S221 same plane	US-PGPUB; USPAT	ADJ	ON	2009/10/26 11:15
S224	17	S221 same plane same overlap\$4	US-PGPUB; USPAT	ADJ	ON	2009/10/26 11:15
S225	0	(slide with transition) same (coordinate with conver\$4)	US-PGPUB; USPAT	ADJ	ON	2009/10/26 11:19
S226	15	(slide with transition) and (coordinate with conver\$4)	US-PGPUB; USPAT	ADJ	ON	2009/10/26 11:20

S227	1	(slideshow with transition) and (coordinate with conver\$4)	US-PGPUB; USPAT	ADJ	ON	2009/10/26 11:23
S228	9163	image with coordinate with (conver\$4 or transl\$3)	US-PGPUB; USPAT	ADJ	ON	2009/10/26 11:35
S229	1115	S228 same plane	US-PGPUB; USPAT	ADJ	ON	2009/10/26 11:35
S230	295	S228 same overlap\$4	US-PGPUB; USPAT	ADJ	ON	2009/10/26 11:36
S231	133	S228 same overlap\$4 same (region or area)	US-PGPUB; USPAT	ADJ	ON	2009/10/26 11:37
S232	125	(slideshow or slide show) near3 transition	US-PGPUB; USPAT	ADJ	ON	2009/10/26 13:35
S233	0	S232 same coordinate	US-PGPUB; USPAT	ADJ	ON	2009/10/26 13:35
S234	0	S232 same plane	US-PGPUB; USPAT	ADJ	ON	2009/10/26 13:35
S235	1981	well same (pixel or photodiode or photoelectric conver\$4) same voltage same (readout or read\$3 out or transfer\$4)	US-PGPUB; USPAT	ADJ	ON	2009/10/31 18:44
S236	895	well same (pixel or photodiode or photoelectric conver\$4) same voltage same (readout or read\$3 out or transfer\$4) near2 charge	US-PGPUB; USPAT	ADJ	ON	2009/10/31 18:45
S237	443	(well with voltage) same (pixel or photodiode or photoelectric conver\$4) same ((readout or read\$3 out or transfer\$4) near2 (charge or signal))	US-PGPUB; USPAT	ADJ	ON	2009/10/31 18:46
S238	246	(well with voltage with ((readout or read\$3 out or transfer\$4) near2 (charge or signal))) same (pixel or photodiode or photoelectric conver\$4)	US-PGPUB; USPAT	ADJ	ON	2009/10/31 18:46
S239	81	(well with voltage with ((readout or read\$3 out or transfer\$4) near2 (charge or signal))) same (pixel or photodiode or photoelectric conver\$4) same substrate	US-PGPUB; USPAT	ADJ	ON	2009/10/31 18:46

S240	0	JP-10248035-\$.did.	US-PGPUB; USPAT	ADJ	ON	2009/11/01 11:42
S241	2	JP-10248035-\$.did.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/11/01 11:43
S242	2	"6002123".pn.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/11/01 11:44
S243	282988	(substrate or well) with voltage	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/11/01 14:32
S244	2830	((substrate or well) with voltage) same ((transfer \$4 or readout or read\$3 out) near3 (transistor or switch or unit or device))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/11/01 14:33
S245	4578	250/208.1.ccls.	US-PGPUB; USPAT	ADJ	ON	2009/11/01 14:34
S246	873	257/223,233.ccls.	US-PGPUB; USPAT	ADJ	ON	2009/11/01 14:34
S247	7599	348/220.1,241,294-324,372.ccls.	US-PGPUB; USPAT	ADJ	ON	2009/11/01 14:34
S248	11975	S245   S246   S247	US-PGPUB; USPAT	ADJ	ON	2009/11/01 14:34
S249	325	S244 and S248	US-PGPUB; USPAT	ADJ	ON	2009/11/01 14:34
S250	299	S244 same (pixel or picel or pixcel)	US-PGPUB; USPAT	ADJ	ON	2009/11/01 14:35
S251	127	S248 and S250	US-PGPUB; USPAT	ADJ	ON	2009/11/01 14:35

S252	6	well with pixel with row with shutter	US-PGPUB; USPAT	ADJ	ON	2009/11/01 15:02
S253	7	well with pixel with rolling shutter	US-PGPUB; USPAT	ADJ	ON	2009/11/01 15:03
S254	2263	row with pixel with well	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/11/01 15:41
S255	529	row near1 pixel with well	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/11/01 15:41
S256	0	row near1 pixel with separate well	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/11/01 15:42
S257	0	each row near1 pixel with well	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/11/01 15:42
S258	220	row near1 pixel near5 well	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/11/01 15:43
S259	20	S248 and S258	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/11/01 15:43
S260	148055	plurality with well	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/11/01 15:50

S261	7941	plurality well	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/11/01 15:50
S262	0	plurality well same row near1 pixel	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/11/01 15:50
S263	0	plurality well same row with pixel	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/11/01 15:51
S264	5	plurality well same row same pixel	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/11/01 15:51
S265	46	plurality well same row same substrate	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/11/01 15:51
S266	152	plurality near2 well same row same substrate	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/11/01 15:51
S267	99	plurality near2 well with substrate same row	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/11/01 15:52
S268	1	"20050094023"	US-PGPUB; USPAT	ADJ	ON	2009/11/02 11:59
S269	1	S268 and through	US-PGPUB; USPAT	ADJ	ON	2009/11/02 11:59
S270	2284	row with well with (pixel or photoelectric conver \$4)	US-PGPUB; USPAT	ADJ	ON	2009/11/02 12:22

S271	2856	(row or column) with well with (pixel or photoelectric conver\$4 or image (sens\$3 or captur\$3 or pickup or pick up)(device or unit or element))	US-PGPUB; USPAT	ADJ	ON	2009/11/02 12:25
S272	54	(row or column) with well with (pixel or photoelectric conver\$4 or image (sens\$3 or captur\$3 or pickup or pick up)(device or unit or element)) with (common or contiguous)	US-PGPUB; USPAT	ADJ	ON	2009/11/02 12:26
S273	21	(row or column) with (pixel or photoelectric conver\$4 or image (sens\$3 or captur\$3 or pickup or pick up)(device or unit or element)) with (common or contiguous) near3 well	US-PGPUB; USPAT	ADJ	ON	2009/11/02 12:26
S274	1656	(row or column) near2 (pixel or photoelectric conver\$4 or image (sens\$3 or captur\$3 or pickup or pick up)(device or unit or element)) with well	US-PGPUB; USPAT	ADJ	ON	2009/11/02 12:29
S275	104	S274 same substrate	US-PGPUB; USPAT	ADJ	ON	2009/11/02 12:29
S276	70	S275 not display.ti.	US-PGPUB; USPAT	ADJ	ON	2009/11/02 12:51
S277	138	(keiji near1 mabuchi).in.	US-PGPUB; USPAT	ADJ	ON	2009/11/02 16:12
S278	12	S277 and (row same well same pixel)	US-PGPUB; USPAT	ADJ	ON	2009/11/02 16:12
S279	1	"20070147787"	US-PGPUB; USPAT	ADJ	ON	2009/11/03 10:39
S280	1	S279 and total	US-PGPUB; USPAT	ADJ	ON	2009/11/03 10:39
S281	1557	386/4,121,124.ccls.	US-PGPUB; USPAT	ADJ	ON	2009/11/03 17:49
S282	527	348/220.1.ccls.	US-PGPUB; USPAT	ADJ	ON	2009/11/03 17:49
S283	2067	S281   S282	US-PGPUB; USPAT	ADJ	ON	2009/11/03 17:49

S284	38	(US-20040239791-\$ or US-20040252211-\$ or US-20030030737-\$ or US-20020171752-\$ or US-20060072026-\$ or US-20020105586-\$ or US-20030151050-\$).did. or (US-7102680-\$ or US-6982751-\$ or US-6947089-\$ or US-5828407-\$ or US-5631705-\$ or US-7129985-\$ or US-6515703-\$ or US-5786852-\$ or US-5729287-\$ or US-6661459-\$ or US-6825878-\$ or US-6486460-\$ or US-5587596-\$ or US-6501109-\$ or US-5747840-\$ or US-7388611-\$ or US-7365785-\$ or US-7292274-\$ or US-7161625-\$ or US-6559889-\$ or US-5181101-\$ or US-4963983-\$ or US-7375752-\$ or US-6002123-\$ or US-6670990-\$ or US-6403998-\$).did. or (JP-2000022126-\$).did. or (JP-2000022126-\$ or JP-03195278-\$ or JP-2001257940-\$ or JP-58125974-\$).did.	US-PGPUB; USPAT; JPO; DERWENT	ADJ	ON	2010/01/28 16:45
S285	2332	row with pixel with well	US-PGPUB; USPAT	ADJ	ON	2010/02/16 18:08
S286	175	row with pixel with well same substrate	US-PGPUB; USPAT	ADJ	ON	2010/02/16 18:08
S287	102	row near3 pixel with well same substrate	US-PGPUB; USPAT	ADJ	ON	2010/02/16 18:09
S288	29	row near3 pixel with well with substrate	US-PGPUB; USPAT	ADJ	ON	2010/02/16 18:09
S289	0	each with row near3 pixel with well same substrate	US-PGPUB; USPAT	ADJ	ON	2010/02/16 18:11
S290	73	S287 not S288	US-PGPUB; USPAT	ADJ	ON	2010/02/16 18:11
S291	102	row near3 pixel with well same substrate	US-PGPUB; USPAT	ADJ	ON	2010/02/16 18:18
S292	5	("6051857"   "6504194").PN. OR ("7067860").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/02/16 18:19
S293	5	("4808834"   "5892253"   "6051857").PN. OR ("7061033").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/02/16 18:20

S294	8	("6051857"   "6423958"   "6448596"   "6476371"   "6504194").PN. OR ("6914228").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/02/16 18:21
S295	1	"5587596".pn.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/02/16 18:23
S296	4	row near3 pixel with separate near3 well	US-PGPUB; USPAT	ADJ	ON	2010/02/16 18:27
S297	7	row near3 pixel same separate near3 well	US-PGPUB; USPAT	ADJ	ON	2010/02/16 18:27
S298	3	S297 not S296	US-PGPUB; USPAT	ADJ	ON	2010/02/16 18:28
S299	2	row near3 pixel same separate near3 (region near3 semiconductor)	US-PGPUB; USPAT	ADJ	ON	2010/02/16 18:29
S300	2	row near3 pixel same separate near3 region near3 semiconductor	US-PGPUB; USPAT	ADJ	ON	2010/02/16 18:29
S301	2	row near3 pixel same separate with semiconductor (well or region)	US-PGPUB; USPAT	ADJ	ON	2010/02/16 18:30
S302	2	row near3 pixel same (separate or distinct or isolated) with semiconductor (well or region)	US-PGPUB; USPAT	ADJ	ON	2010/02/16 18:30
S303	2	row near3 pixel same (separate or distinct or isolated) with semiconductor near2 (well or region)	US-PGPUB; USPAT	ADJ	ON	2010/02/16 18:30
S304	173	row near3 pixel with (semiconductor or p or n or p type or n type) near2 (well or region)	US-PGPUB; USPAT	ADJ	ON	2010/02/16 18:35
S305	1	row near3 pixel with (semiconductor or p or n or p type or n type) near2 (well or region) same shutter\$3	US-PGPUB; USPAT	ADJ	ON	2010/02/16 18:35
S306	1	"20040130641"	US-PGPUB; USPAT	ADJ	ON	2010/02/17 12:30
S307	85	foveon.as.	US-PGPUB; USPAT	ADJ	ON	2010/04/08 12:34
S308	72	S307 and well	US-PGPUB; USPAT	ADJ	ON	2010/04/08 12:34

S309	38	S307 and well same semiconductor	US-PGPUB; USPAT	ADJ	ON	2010/04/08 12:35
S310	955	row with well with semiconductor	US-PGPUB; USPAT	ADJ	ON	2010/04/08 12:46
S311	25	row with well with semiconductor with pixel	US-PGPUB; USPAT	ADJ	ON	2010/04/08 12:46
S312	1	"20070222879"	US-PGPUB; USPAT	ADJ	ON	2010/04/08 13:34
S313	1	"20080106625"	US-PGPUB; USPAT	ADJ	ON	2010/04/08 13:36
S314	1	"20040130641"	US-PGPUB; USPAT	ADJ	ON	2010/04/08 13:43
S315	0	"20040130641" and variable	US-PGPUB; USPAT	ADJ	ON	2010/04/09 11:10
S316	1	"20040130641" and reduc\$3	US-PGPUB; USPAT	ADJ	ON	2010/04/09 11:11

### EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L16	411	(semiconductor same substrate same voltage same pixel).clm.	US-PGPUB; USPAT; UPAD	ADJ	ON	2010/04/30 22:01
L17	34	(semiconductor same substrate same voltage same pixel same well).clm.	US-PGPUB; USPAT; UPAD	ADJ	ON	2010/04/30 22:02
L18	71	(bias\$3 voltage same substrate same pixel).clm.	US-PGPUB; USPAT; UPAD	ADJ	ON	2010/04/30 22:12
L19	15	(bias\$3 voltage same substrate same pixel same (readout or read\$3 out or transfer \$4)).clm.	US-PGPUB; USPAT; UPAD	ADJ	ON	2010/04/30 22:12
L20	9	(bias\$3 same voltage same substrate same pixel near2 row).clm.	US-PGPUB; USPAT; UPAD	ADJ	ON	2010/04/30 22:20

4/30/2010 10:26:26 PM

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